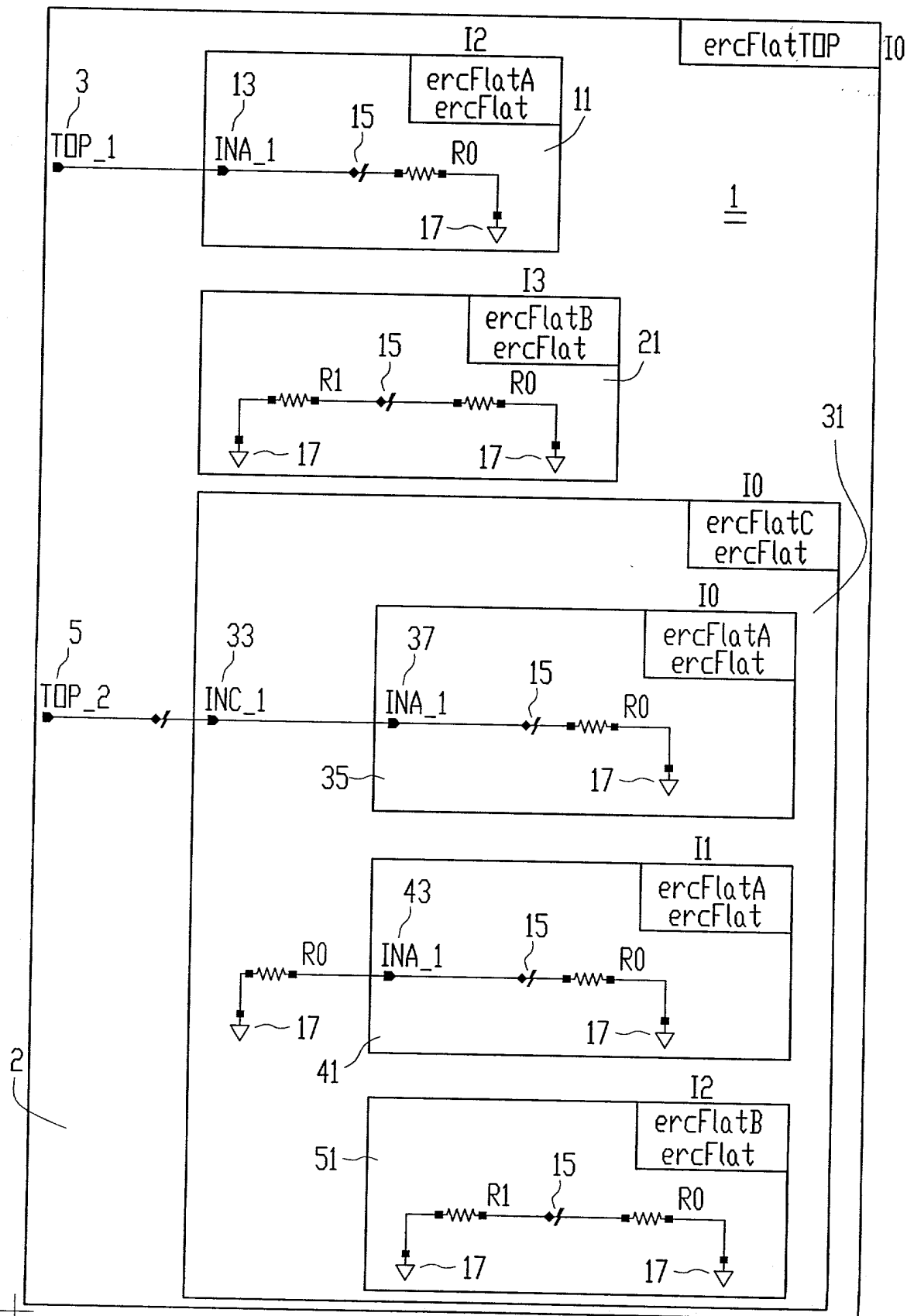


# FIG. 1



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FIG. 2

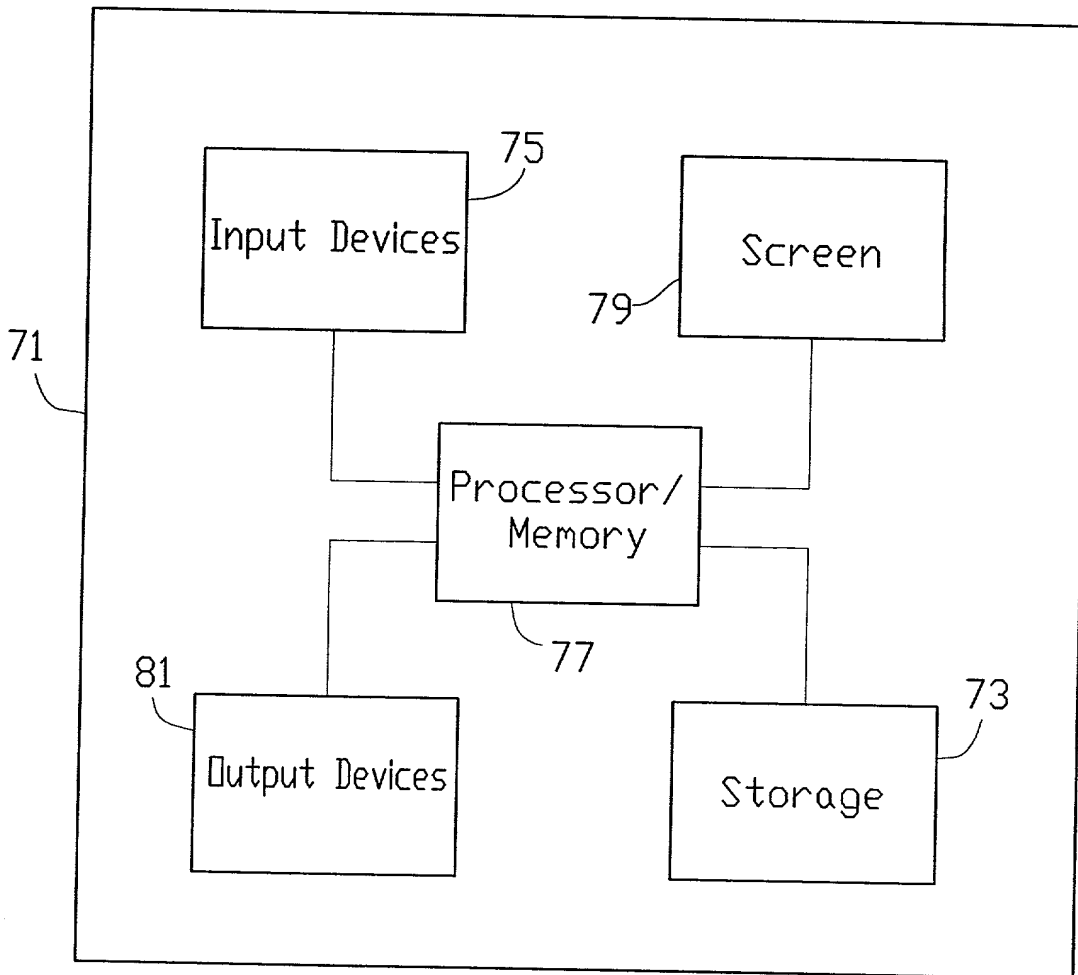


FIG. 3

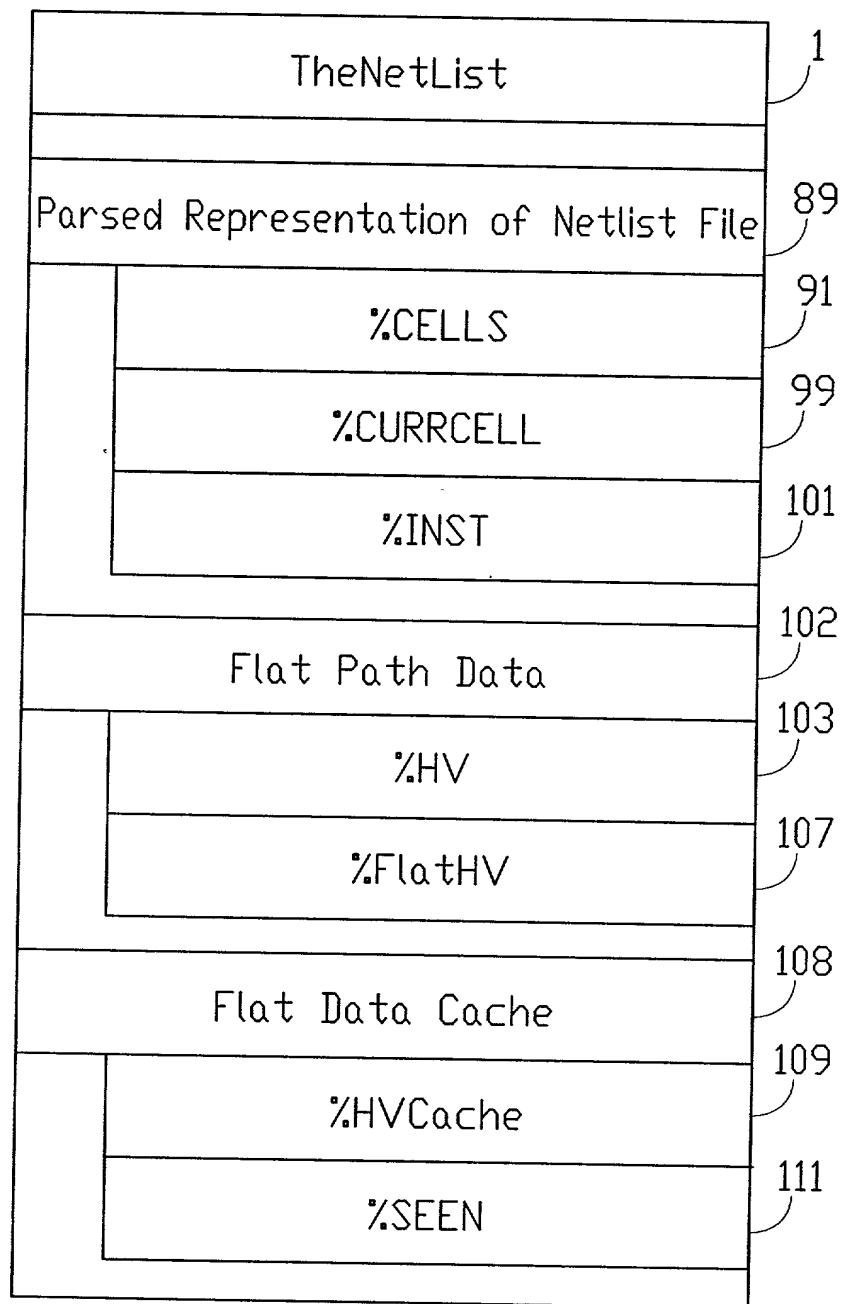


FIG. 4

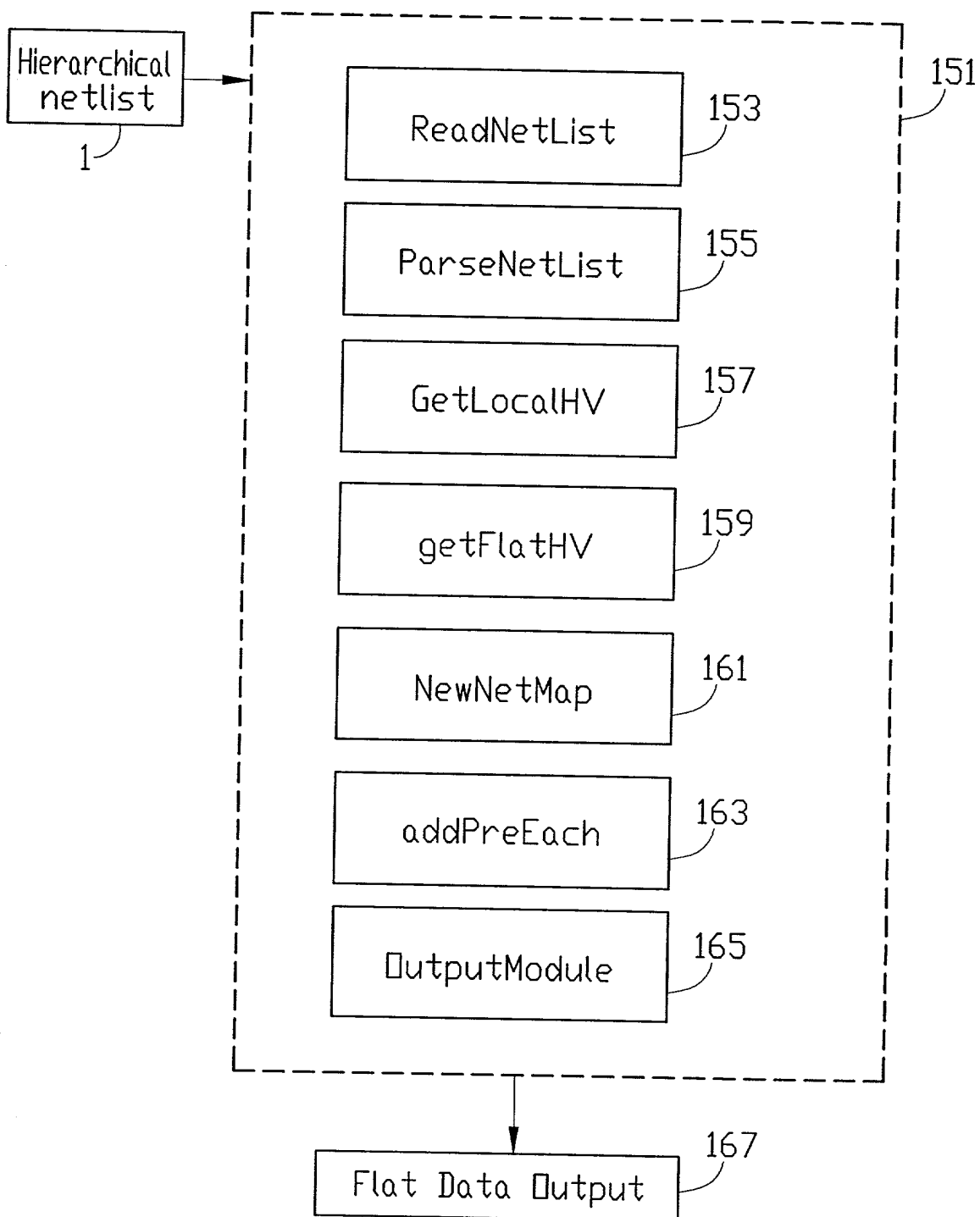
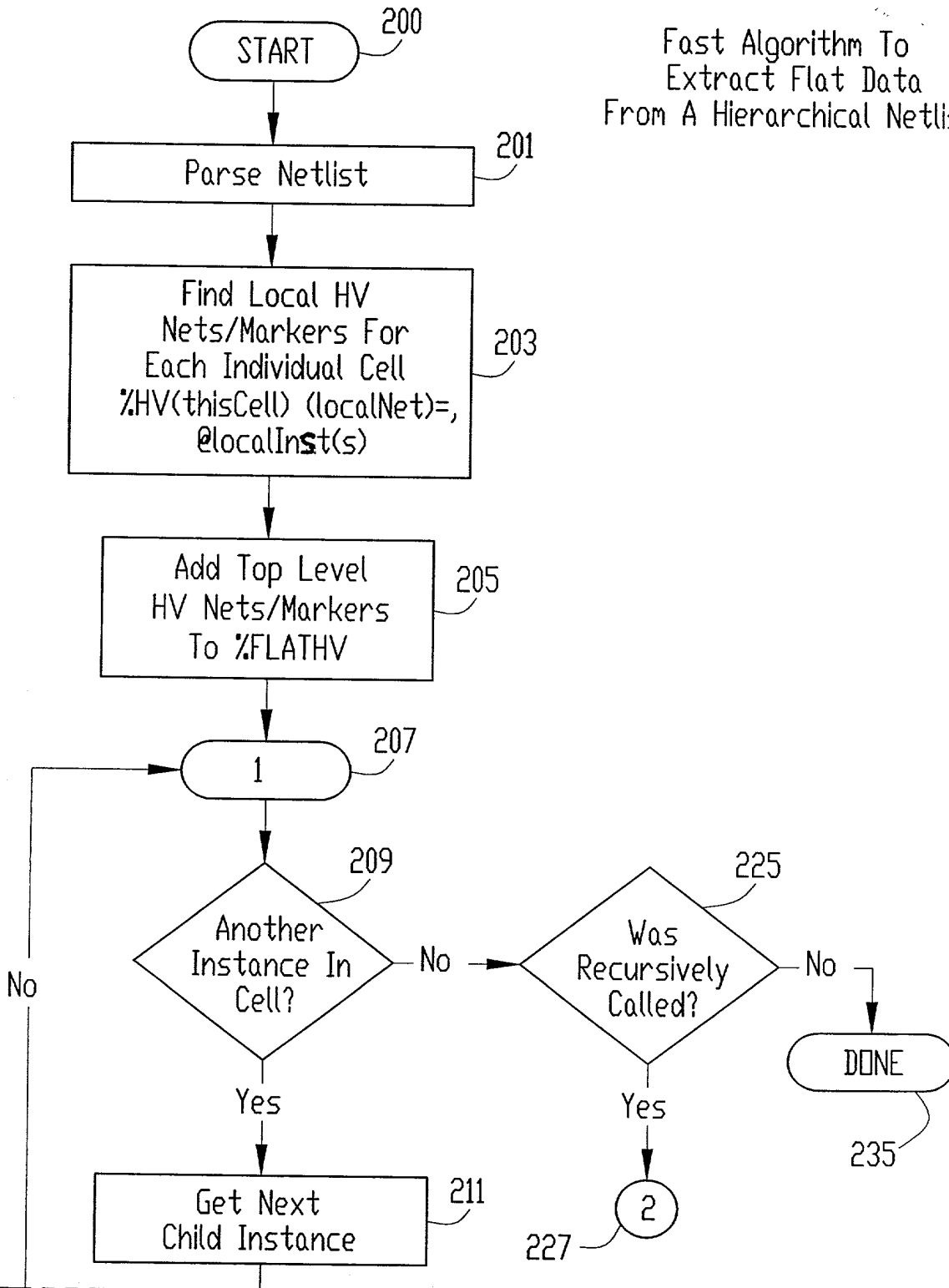


FIG. 5

FIG. 5(A)  
FIG. 5(B)

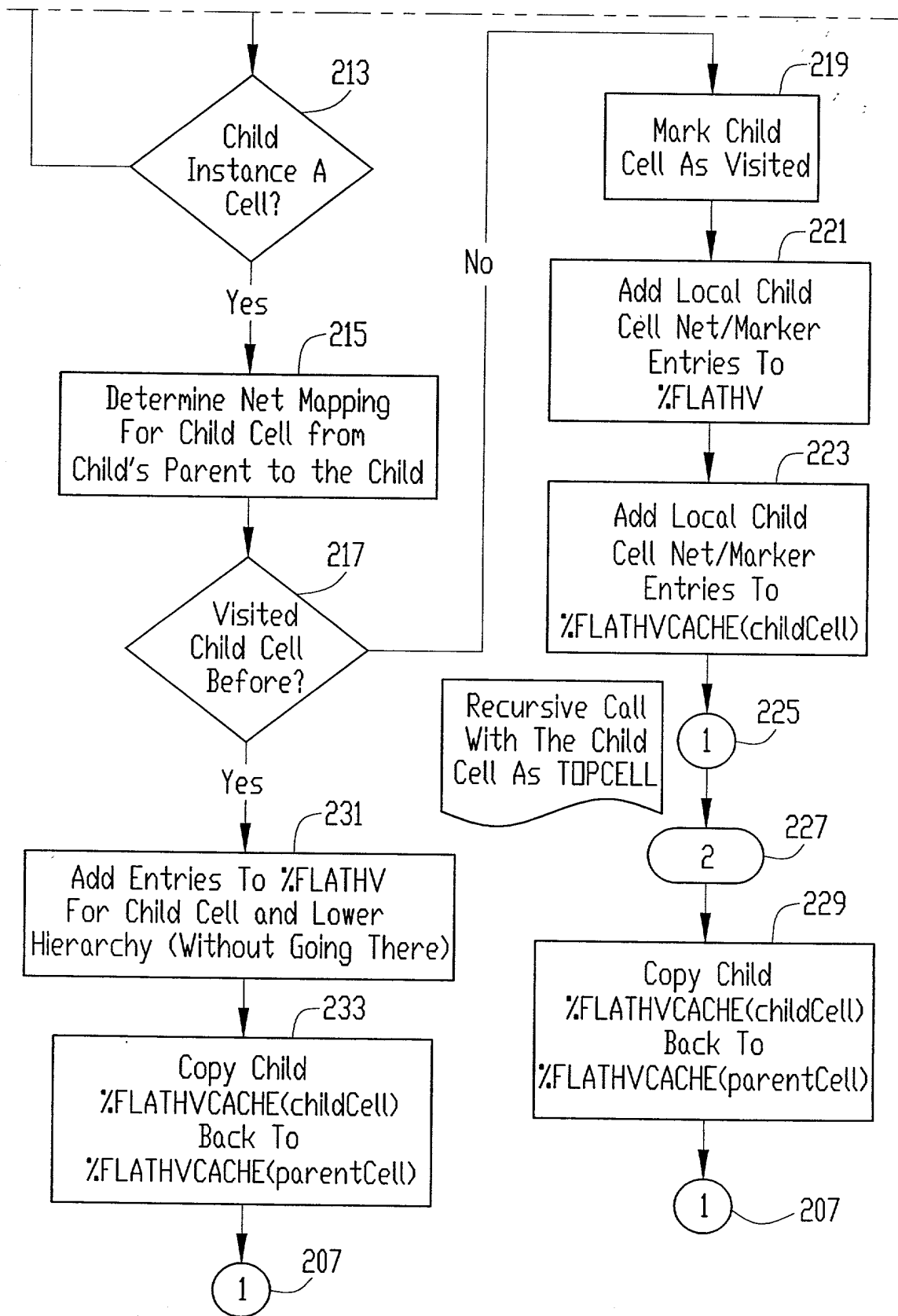
FIG. 5(A)

Fast Algorithm To  
Extract Flat Data  
From A Hierarchical Netlist



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FIG. 5(B)



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FIG. 6(B)

Flat  
  INA\_1----->( X0 )  
  Check  
  Deep  
Cell=<ercFlatB>  
  Flat  
  Check  
  Deep  
    net2----->( X0 )  
Cell=<ercFlatTOP>  
  Flat  
  Check  
    TOP\_1----->( I2/X0 )  
    TOP\_2----->( I0/I0/X0 )  
  Deep  
    I0/net2----->( I0/I1/X0 )  
    I0/I2/net2----->( I0/I2/X0 )  
    I3/net2----->( I3/X0 )  
Cell=<ercFlatC>  
  Flat  
  Check  
    net2----->( I1/X0 )  
    INC\_1----->( I0/X0 )  
  Deep  
    I2/net2----->( I2/X0 )

305

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FIG. 6

FIG. 6(A)

FIG. 6(A)
FIG. 6(B)

PROGRAM OUTPUT

-----%HV...

inst=<ercFlatA>

<INA\_1> ----->( <X0> )

inst=<ercFlatB>

<net2> ----->( <X0> )

inst=<ercFlatTOP>

<TOP\_2> ----->( <X0> )

301

-----%FLATHV...

/I0/net2----->( /I0/I1/X0 )

/TOP\_1----->( /I2/X0 )

/I0/I2/net2----->( /I0/I2/X0 )

/I3/net2----->( /I3/X0 )

/TOP\_2----->( /X0 /I0/I0/X0 )

303

-----%FLATHVCACHE...

Cell=<ercFlatA>

top  
path  
keys

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FIG. 7

\_\_\_\_%FlatHV

